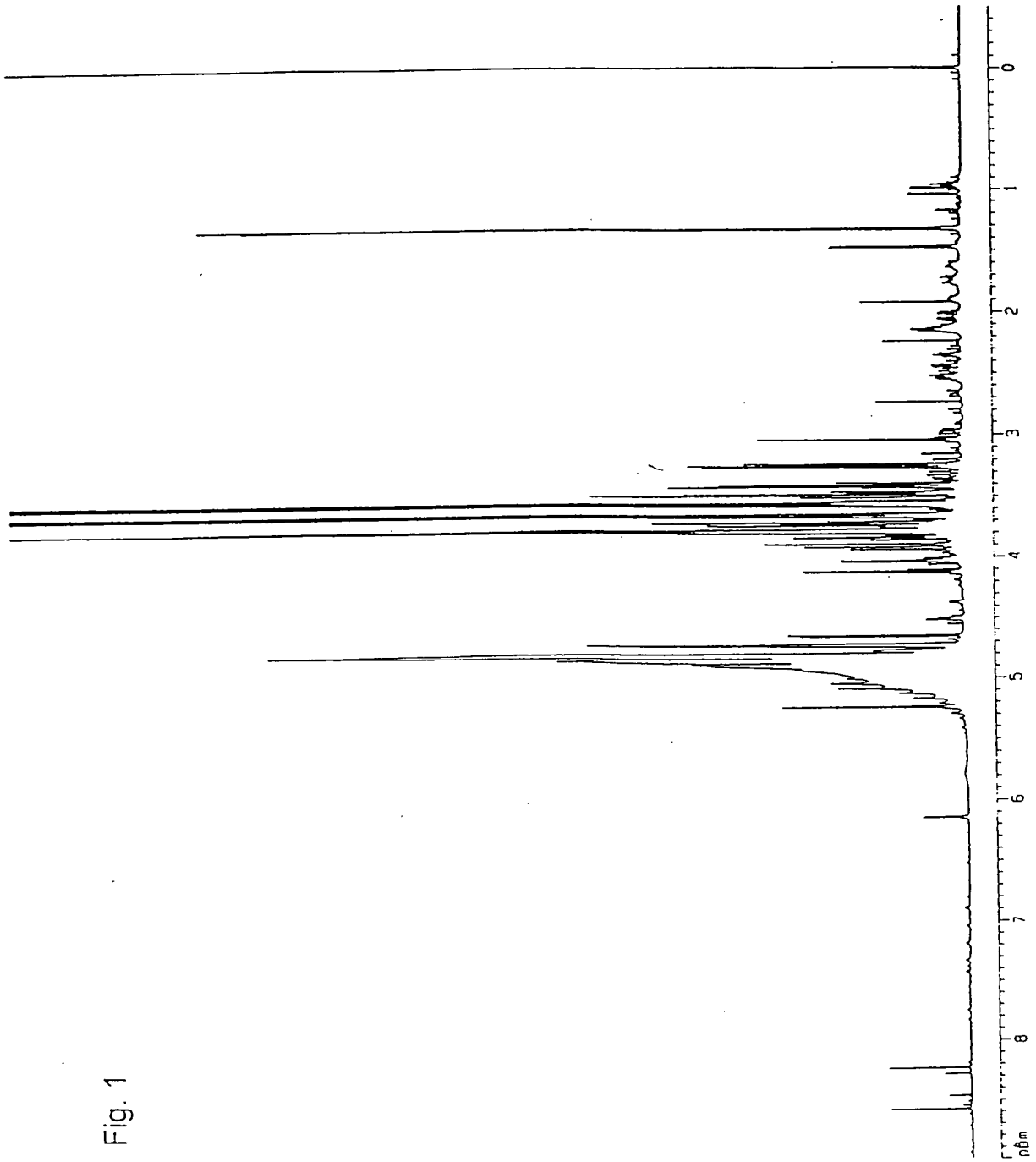
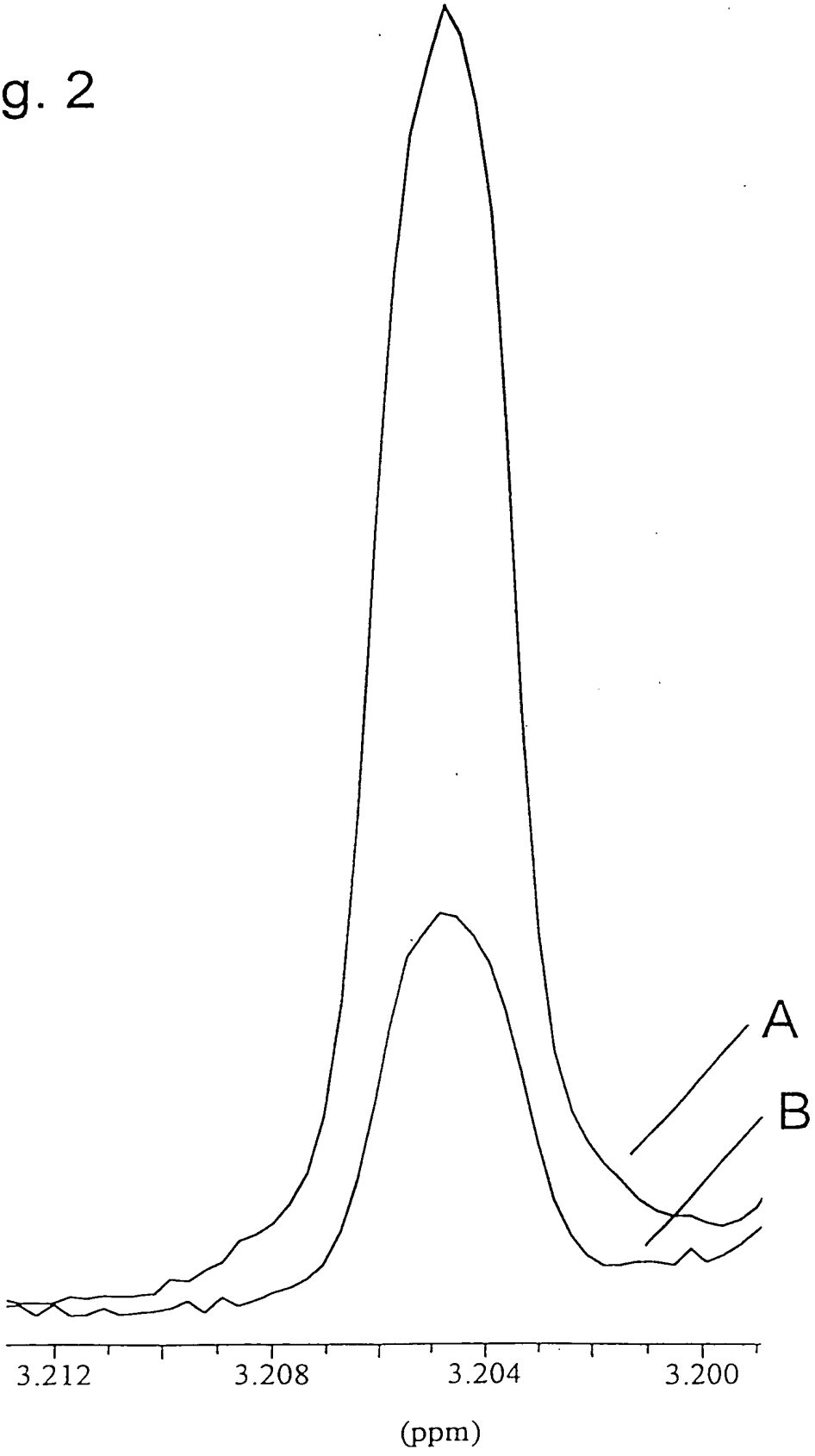


Fig. 1

Fig. 2



total time period (0-35 h)	CCTD (> 22µmol/l)	CK (> 100 U/l)	CK-MB (≥ 6% of CK)	Myo (> 90 ng/ml)	cTnl/T (cTnl > 1,5 µg/l)
sensitivity	96.6 %	57.1 %	57.1 %	60.7 %	69.5 %
specificity	92.8 %	71.4 %	100 %	64.2 %	92.8 %
positive predictive value	96.6 %	80.0 %	100 %	77.2 %	94.7 %
negative predictive value	92.8 %	45.4 %	53.8 %	45.0 %	52.0 %
diagnostic efficiency	95.4 %	61.9 %	71.4 %	61.9 %	70.4 %

Fig. 3: Diagnostic valency of choline, choline derivatives, and trimethyl ammonium derivatives (CCTD) compared with other infarction markers during total time period (0-35 h).

Number of samples (n) infarction group: CCTD n=30, CK/CK-MB/myoglobin (Myo) n=28, troponin I/T (cTnI/T) n=23; control group: all markers n=14

early phase of AMI (0-6 h)	CCTD (> 22µmol/l)	CK (> 100 U/l)	CK-MB (≥ 6% of CK)	Myo (> 90 ng/ml)	cTnl/T (cTnl > 1,5 µg/l)
sensitivity	100 %	37.5 %	37.5 %	62.5 %	50.0 %
specificity	92.8 %	71.4 %	100 %	64.2 %	92.8 %
positive predictive value	94.7 %	60.0 %	100 %	66.6 %	87.5 %
negative predictive value	100 %	50.0 %	58.3 %	60.0 %	65.0 %
diagnostic efficiency	96.8 %	53.3 %	66.6 %	63.3 %	71.4 %

Fig. 4: Diagnostic valency of choline, choline derivatives, and trimethyl ammonium derivatives (CCTD) compared with other infarction markers during the early phase of the AMI (0-6 h).

Number of samples (n) infarction group: CCTD n=18, CK/CK-MB/myoglobin (Myo) n=16, troponin I/T (cTnI/T) n=14; control group: all markers n=14

early phase of AMI (0-3 h)	CCTD (> 22µmol/l)	CK (> 100 U/l)	CK-MB (≥ 6% of CK)	Myo (> 90 ng/ml)	cTnI/T (cTnI > 1,5 µg/l)
sensitivity	100 %	12.5 %	12.5 %	50.0 %	28.5 %
specificity	92.8 %	71.4 %	100 %	64.2 %	92.8 %
positive predictive value	88.8 %	20.0 %	100 %	44.4 %	66.6 %
negative predictive value	100 %	58.8 %	66.6 %	69.2 %	72.2 %
diagnostic efficiency	95.4 %	50.0 %	68.1 %	59.0%	71.4 %

Fig. 5: Diagnostic valency of choline, choline derivatives, and trimethyl ammonium derivatives (CCTD) compared with other infarction markers during the early phase of the AMI (0-3 h).

Number of samples (n) infarction group: CCTD n=8, CK/CK-MB/myoglobin (Myo) n=8, troponin I/T (cTnI/T) n=7; control group: all markers n=14

late phase of AMI (7-35 h)	CCTD (> 22µmol/l)	CK (> 100 U/l)	CK-MB (≥ 6% of CK)	Myo (> 90 ng/ml)	cTnl/T (cTnl > 1,5 µg/l)
sensitivity	91.6 %	83.3 %	83.3 %	58.3 %	100 %
specificity	92.8 %	71.4 %	100 %	64.2 %	92.8 %
positive predictive value	91.6 %	71.4 %	100 %	58.3 %	90.0 %
negative predictive value	92.8 %	83.3 %	87.5 %	64.2 %	100 %
diagnostic efficiency	92.3 %	76.9 %	92.3 %	61.5%	69.6 %

Fig. 6: Diagnostic valency of choline, choline derivatives, and trimethyl ammonium derivatives (CCTD) compared with other infarction markers during the late phase of the AMI (7-35 h).

Number of samples (n) infarction group: CCTD n=12, CK/CK-MB/myoglobin (Myo) n=12, troponin I/T (cTnI/T) n=9; control group: all markers n=14